

Close Look into Top Medical Causes of Death: 2014 - 2020

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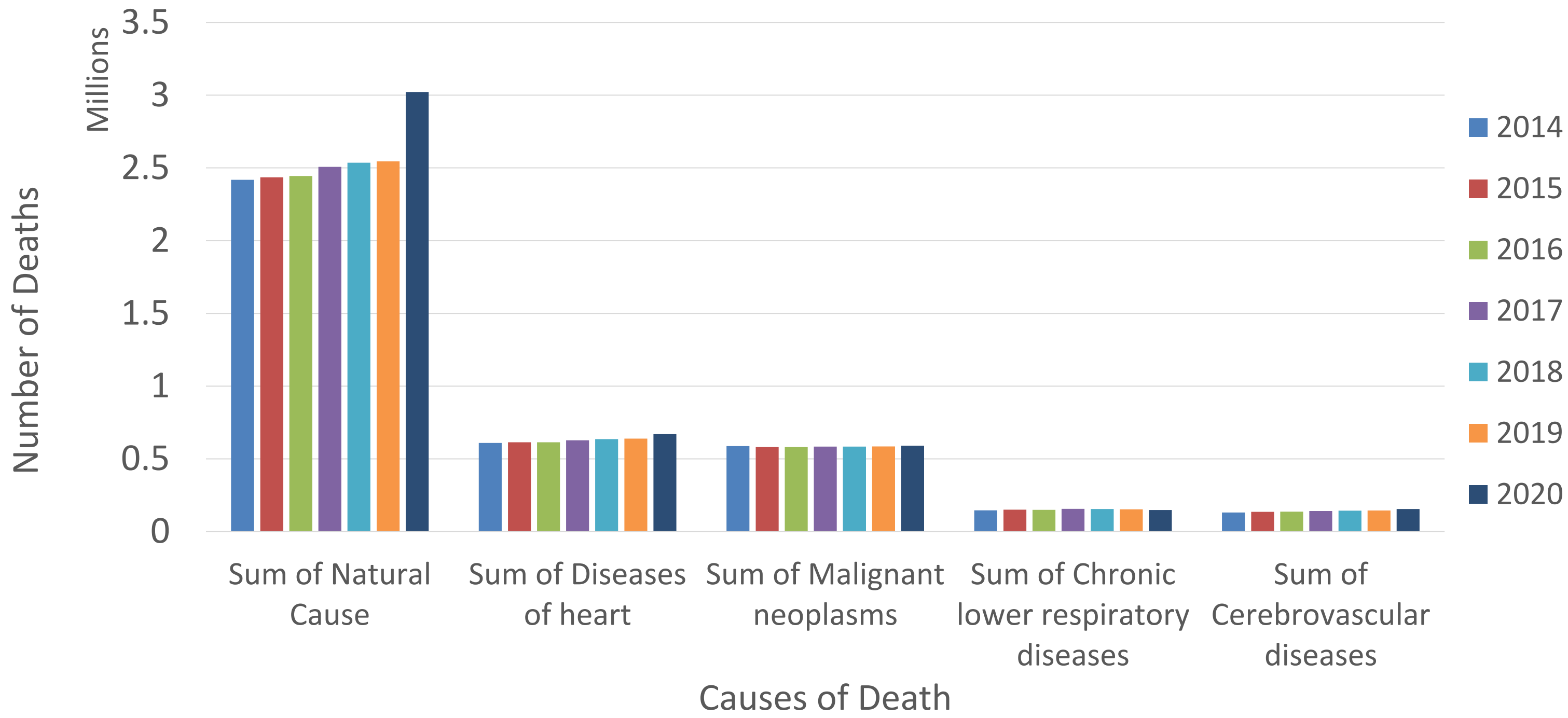
Objectives:

Apply methods learned in class to analyze CDC data for trends in causes of death.

Top 5 Causes of Death: By Year

- Top cause of death is natural causes
- Top medical reason for death is heart disease
- Can see slight increase in number of deaths by year in natural causes and heart disease

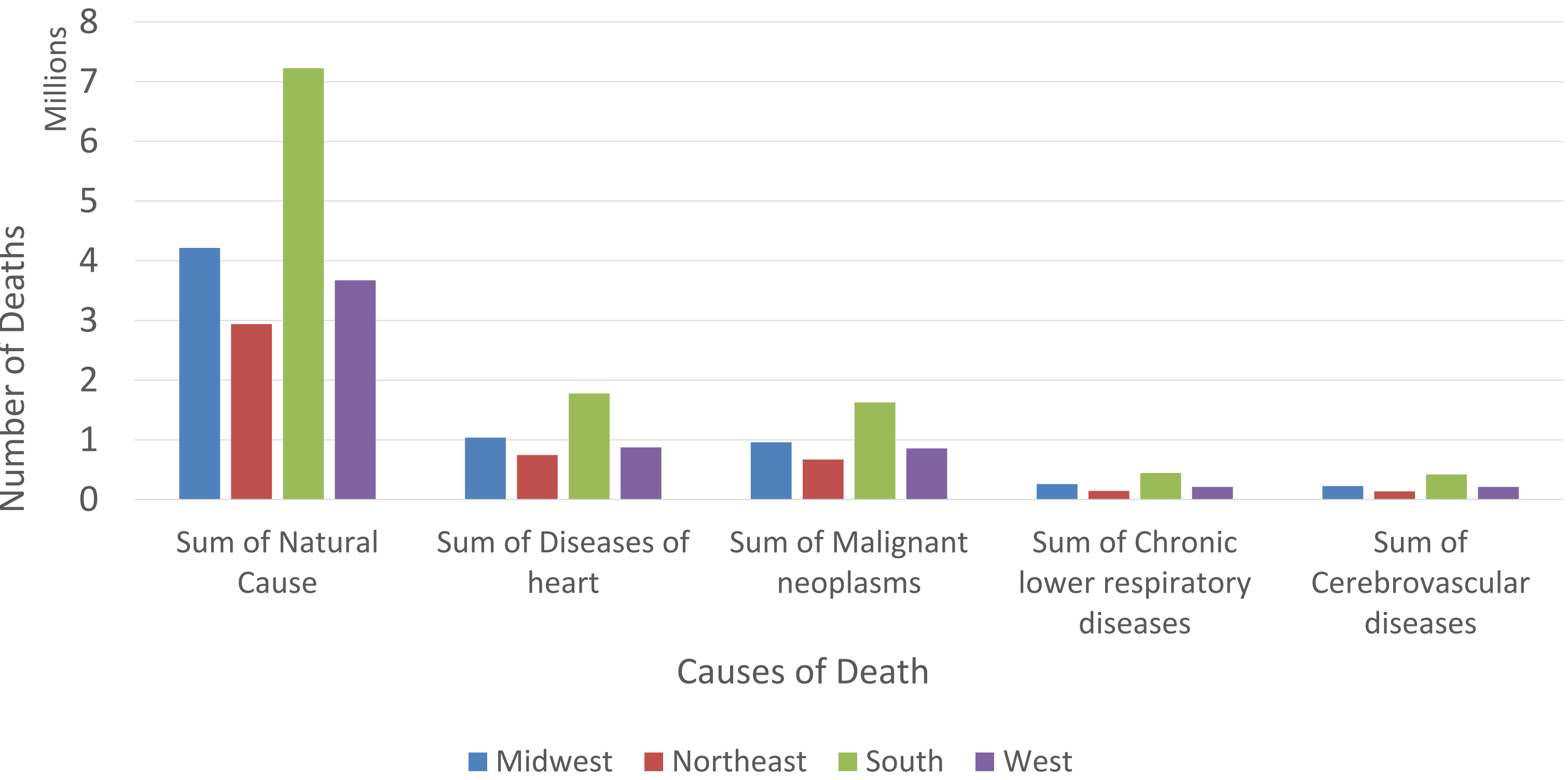
Top 5 Causes of Death: By Year



Top 5 Causes of Death: By Region

- Most deaths occur in the South, by quite a margin
- Midwest has second most deaths
 - Large land areas, but not always densely populated like both coastlines

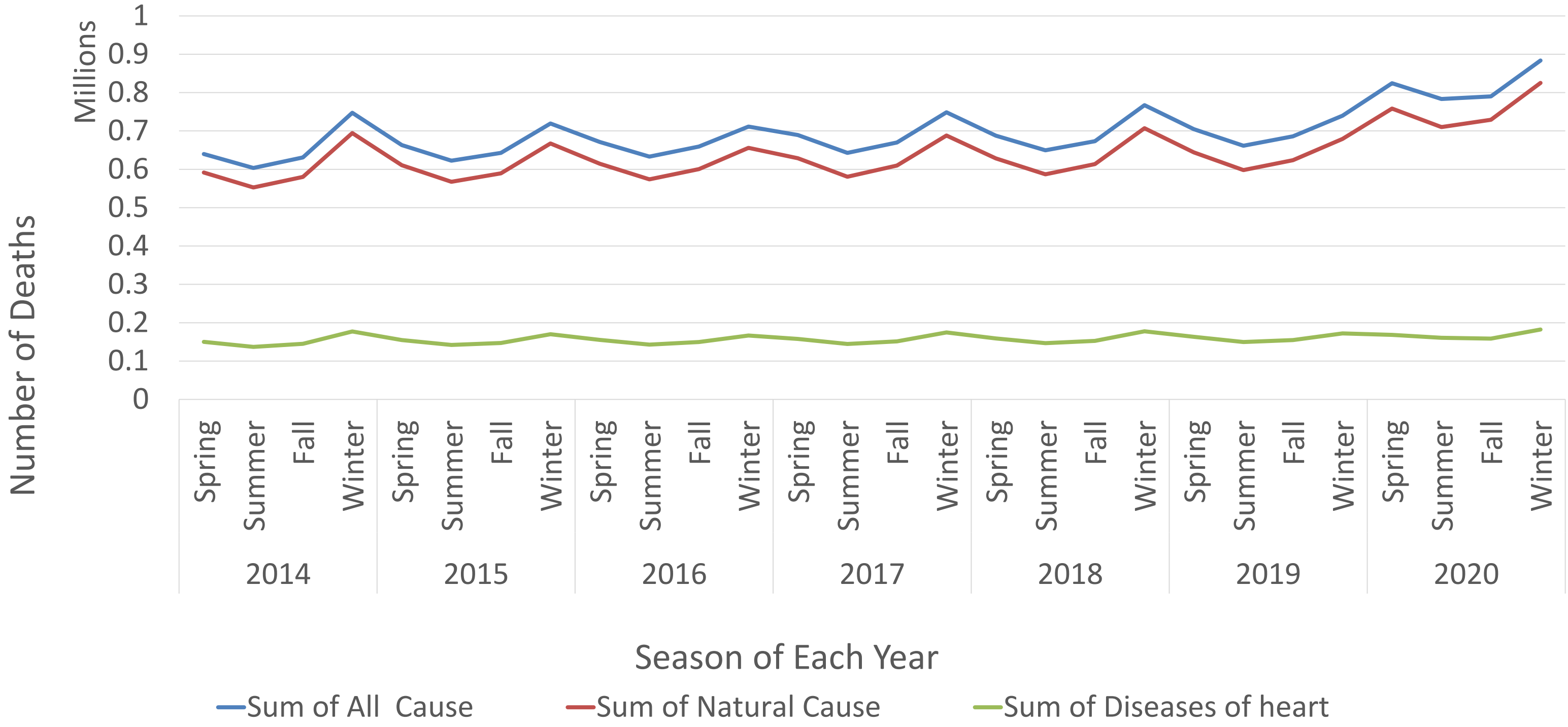
Top 5 Causes of Death: By Region



Overall Death Patterns Throughout the Years

- Clear sinusoid wave - peaks in winter and valleys summer
 - Winter is sick season, more likely to die
- Slight upward trend in deaths also observed here
 - Could be because of population increase

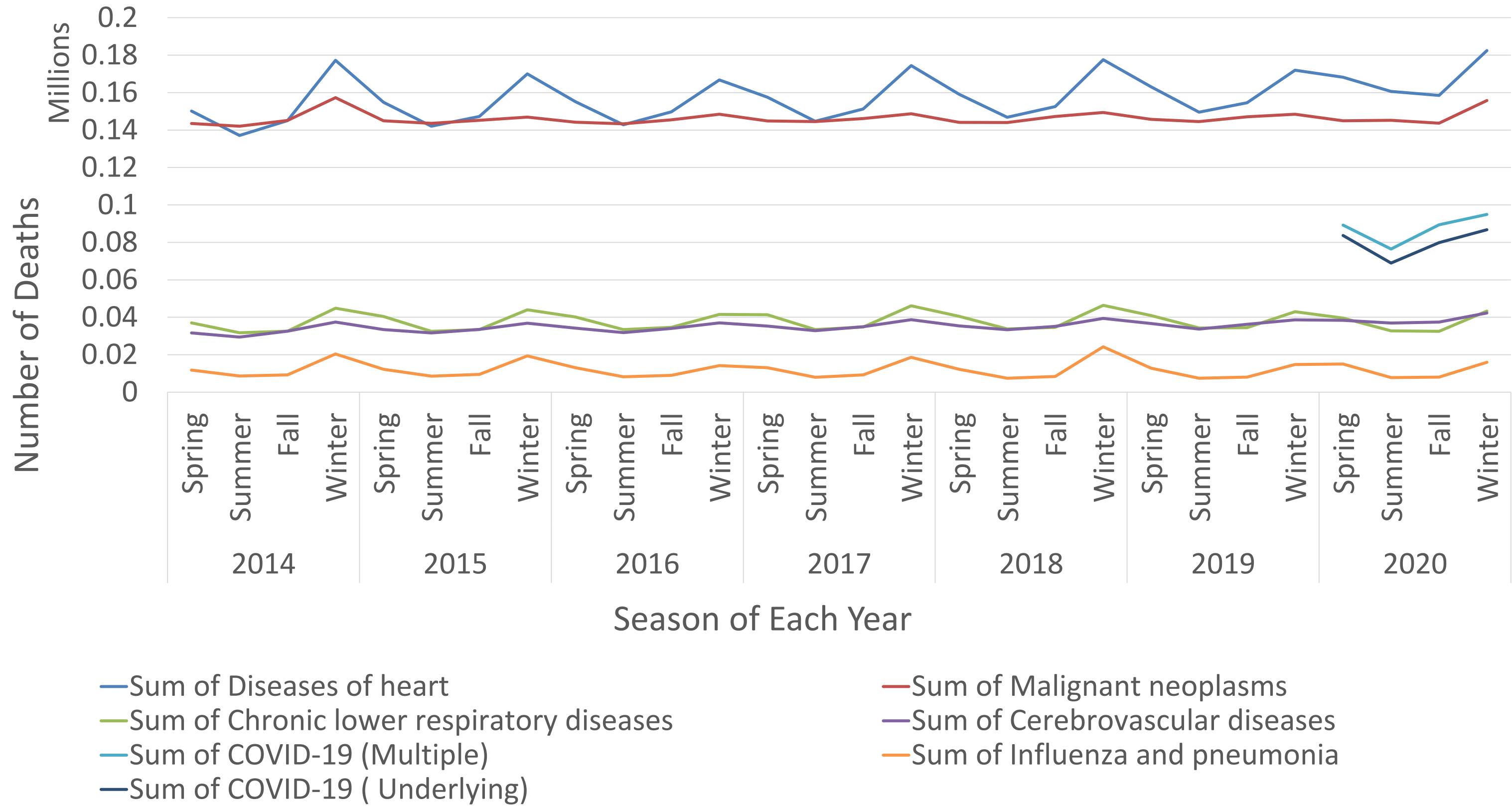
Overall Death Paterns Throughout the Years



Patterns of Top Causes of Death Compared to COVID-19

- Same sine wave as previously observed
- COVID-19 has more deaths than most medical diseases
 - Only heart disease and Malignant neoplasms have more deaths listed

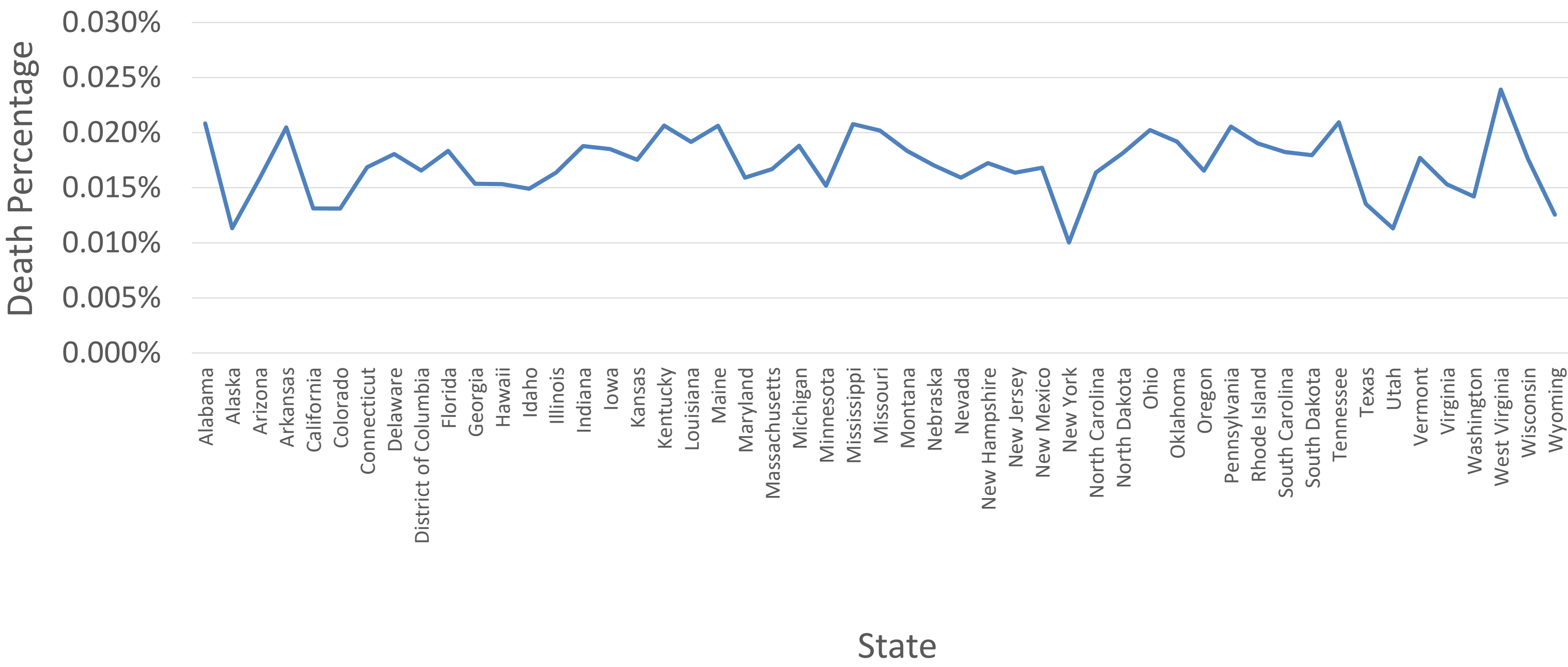
Patterns of Top Causes of Death Compared to COVID-19



All Cause of Death: Normalized by 2019 State Population

- Very small percentage of each state population die each year
 - Less than half a percent

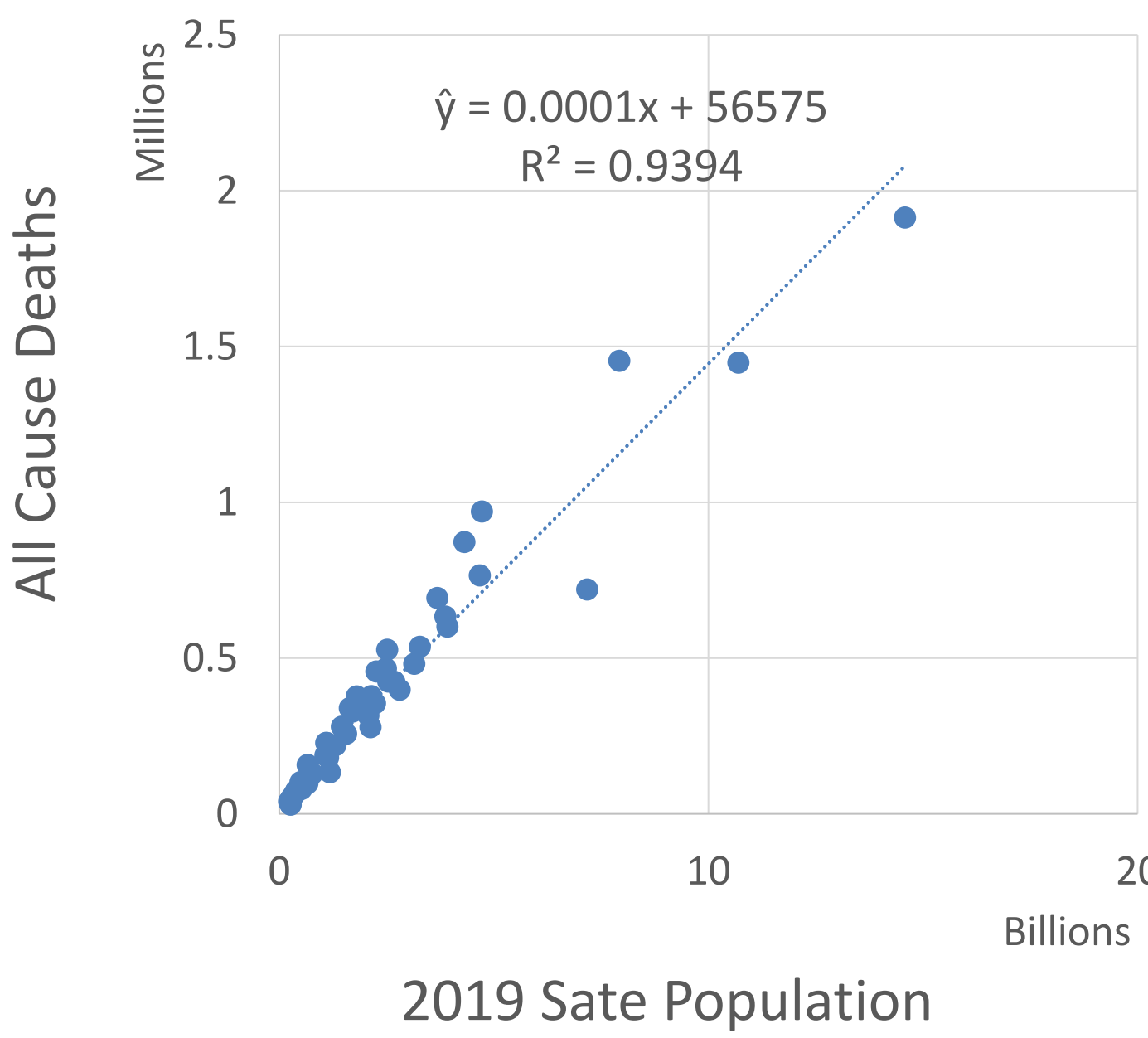
All Cause of Death:
Normalized by 2019 State Population



Comparisons By State

- All Causes of Death vs. Population
 - Strong, positive relationship between state population and number of deaths
 - More people, more people who die
- Respiratory Death vs. Heart Disease Death
 - Strong, positive relationship between respiratory deaths and heart disease deaths

All Causes Death Relation to
Population:
Comparison By State



Respiratory Death Relation to Heart
Disease Death:
Comparison By State

